

Appl. No. 10/711,016
Amdt. dated July 18, 2006
Reply to Office action of June 19, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 5 Claim 1 (currently amended) A color filter structure comprising:
a substrate having a rim region and a central region defined thereon;
a first light-blocking layer positioned within ~~[[a]]~~the rim region on the substrate; and
a plurality of conductive color filters positioned in the central region
10 on the substrate ~~except the rim region~~ to form a common electrode.

- Claim 2 (currently amended) The color filter structure of claim 1 wherein
~~the conductive color filters are positioned within a central region on the~~
~~substrate, the central region corresponds to being opposite to~~ a pixel region
15 on a thin-film transistor substrate.

- Claim 3 (original) The color filter structure of claim 1 wherein the
conductive color filters comprise at least a red color filter, at least a green
color filter and at least a blue color filter.

- 20 Claim 4 (original) The color filter structure of claim 1 wherein the
conductive color filters comprise conductive macromolecular compounds.

- Claim 5 (original) The color filter structure of claim 1 wherein the
25 conductive color filters comprise conductive nanometer particles.

- Claim 6 (original) The color filter structure of claim 1 further comprising a

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plurality of second light-blocking layers positioned on the substrate except the rim region, the second light-blocking layers being used to avoid light interference between two adjacent conductive color filters.

5 Claim 7 (original) The color filter structure of claim 6 wherein the second light-blocking layers are composed of conductive materials, and each of the second light-blocking layer is partially overlapped with its adjacent conductive color filters.

10 Claim 8 (original) The color filter structure of claim 6 wherein the second light-blocking layers are composed of insulating materials, and each of the conductive color filters contacts its adjacent color filter(s).

Claim 9 (withdrawn) The color filter structure of claim 1 wherein the first
15 light-blocking layer is composed of insulating materials, the conductive color filters comprise a protrusion extending to the rim region and atop the first light-blocking layer, and the protrusion of the conductive color filters is used as an interconnection contact pad.

20 Claim 10 (original) The color filter structure of claim 1 wherein the first light-blocking layer is composed of conductive materials, the conductive color filters are partially overlapped with the first light-blocking layer, and the first light-blocking layer is used as an interconnection contact pad.

25 Claims 11-20 (cancelled)